

## 产品概览

### NCP51705: SiC MOSFET 驱动器，低压侧，单个 6 A 高速

欲看完整文档，请参阅数据表。

NCP51705 驱动器主要用于驱动 SiC MOSFET 晶体管。为了实现最低的导通损耗，该驱动器能够为 SiC MOSFET 器件提供最大门极电压。通过在开启和关断期间提供高峰值电流，开关损耗也得以最大程度减少。为了提高可靠性，dV/dt 抗扰性甚至更快的关断时间，NCP51705 可以使用板上电荷泵来产生用户可选择的负电压轨。对于隔离应用，NCP51705 还提供了外部可访问的 5 V 轨，为数字或高速光隔离器辅助侧供电。

#### 特性

- High Peak Output Current with Split Output Stages
- Extended Positive Voltage Rating up to 28 V Max
- User-adjustable Built-in Negative Charge Pump (-3.3 V to -8 V)
- Accessible 5 V Reference / Bias Rail
- Adjustable Under-Voltage Lockout
- Fast Desaturation Function
- QFN24 Package 4 x 4 mm

#### 应用

- High Performance Inverters
- High Power Motor Drivers
- Totem Pole PFC

#### 优势

- Allow independent Turn-ON/Turn-OFF Adjustment
- Efficient SiC MOSFET Operation during the Conduction Period
- Fast Turn-off and Robust dV/dt Immunity
- Minimize complexity of bias supply in isolated gate drive applications
- Sufficient VGS amplitude to match SiC best performance
- Self protection of the design
- Small & Low Parasitic Inductance package

#### 终端产品

- Industrial & Motor Drives
- UPS & Solar Inverters
- High Power DC Chargers

#### 器件电气规格

产品	Pricing (\$/Unit)	Compliance	Status	Power Switch	Number of Outputs	Topology	Isolation Type	V <sub>in</sub> Max (V)	V <sub>cc</sub> Max (V)	Drive Source / Sink Typ (mA)	Rise Time (ns)	Fall Time (ns)	t <sub>p</sub> Max (ns)	Package Type
NCP51705MNTXG	1.4666	Pb-free Halide free	Active	SiC MOSFET	1	Single	Non-Isolated	N/A	28	6000 / 6000	8	8	50	WQFN-24

欲了解更多信息，请联系您当地的销售支援 [www.onsemi.cn](http://www.onsemi.cn)。

创建于：4/5/2020